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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,169	09/26/2003	Adam Tartar Richardson	0-02-141.01	8100
7590 01/11/2008  Kevin D. McCarthy  Roach Brown McCarthy & Gruber, P.C.			EXAMINER	
			NGUYEN, DINH Q	
420 Main Street - 1620 Liberty Building Buffalo, NY 14202			ART UNIT	PAPER NUMBER
			3752	
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			01/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/672,169	RICHARDSON ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Dinh Q. Nguyen	3752	
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAII  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic. If NO period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNI OF CFR 1.136(a). In no event, however, may a cation. Ory period will apply and will expire SIX (6) MOI OF the become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed of	on <u>20 December 2007</u> .		
	☐ This action is non-final.		
3) Since this application is in condition for	allowance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice	under <i>Ex parte Quayle</i> , 1935 C.[	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 2-5,7,11-13 and 15-20 is/are	pending in the application.	,	
4a) Of the above claim(s) is/are	withdrawn from consideration.		
5) Claim(s) is/are allowed:			
6) Claim(s) <u>2-5,7,11-13 and 15-20</u> is/are r	rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restrictio	n and/or election requirement.		
Application Papers			
9) The specification is objected to by the E			
10) The drawing(s) filed on is/are: a			
Applicant may not request that any objection			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be	•		
,	y the Examiner. Note the attache	d Office Action of John F 10-132.	
Priority under 35 U.S.C. § 119			
<ul><li>12) ☐ Acknowledgment is made of a claim for</li><li>a) ☐ All</li><li>b) ☐ Some * c) ☐ None of:</li></ul>	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
<ol> <li>Certified copies of the priority do</li> </ol>	cuments have been received.	•	
2. Certified copies of the priority do			
3. Copies of the certified copies of	•	received in this National Stage	
application from the Internationa	l Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action f	11 4 6 44 1160 1	• • • •	

Notice of References Cited (PTO-892)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/07/07 & 12/20/07.

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

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# DETAILED ACTION

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## **Double Patenting**

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 2-5, 7, 15-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 7,028,782. Although the conflicting claims are not identical, they are not patentably distinct from each other because of common subject matter, as follows: amended claim 2 of the instant application cites a method of suppressing fire comprising the steps of generating a fire suppressing gas mixture from at least one non-azide solid propellant chemical, the first fire suppressing gas mixture comprising at least a first gas, said first gas comprising nitrogen; and delivering at least said first gas into the space filtering at least a percentage of a second gas from the first fire suppressing gas mixture prior to delivery

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into the space, which are fully disclosed in claims 1 and 2 of the '782 patent. Similarly, amended claim 15 of the instant application cites a gas generator that is fully disclosed in claim 9 of the '782 patent

3. Claims 11-13 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 7,028,782 in view of Galbraith et al.

Claims 1-14 of U.S. Patent No. 7,028,782 teach all the limitations of the claims except for a sensor for detecting a fire. However, Galbraith et al discloses a solid gas generator 14 with a pyrotechnic device 32 and a sensor 30 for suppressing a fire (see figure 1). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the '782 device with a sensor for detecting a fire as suggested by Galbraith et al. Doing so would provide an effective fire suppressing device (see Galbraith column 2, lines 55+).

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2-5, 7, 11-13 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holland et al. in view of Drakin.

Holland et al. teaches all the limitations of the claims except for a filtering out portion of a second gas from the first mixture. Drakin teaches a solid gas generator with

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a plurality of filters 24/34/44 for filtering a percentage of gas (see column 6, lines 45+) and reducing gas temperature (filter screen 32), and a discharge perforated cap 14. The Kirchoff et al. filters also being used to filter out water vapor (see column 4, lines 52+) and CO<sub>2</sub> (see column 4, lines 1+). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Holland et al with a screen filter as suggested by Drakin. Doing so would provide an environmental friendly fire fighting device (see column 3, lines 60+).

With respect to claims 2-5, 7, the apparatus shown by Holland et al. in view of Drakin is capable of performing the method or steps recited in the claims.

6. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holland et al. in view of Drakin as applied to claims 2-5, 7, 11-13, and 19 above, and further in view of Parkinson et al.

Holland et al. in view of Drakin teaches all the limitations of the claims except for a pre-packed solid propellant. Parkinson et al. disclose a gas generator for generating and delivering a fire suppressing gas mixture to an enclosed space, comprising a housing 112, a pre-packed solid propellant canister 116 disposed within the housing, a pyrotechnic device 182 for igniting the solid propellant canister and generating a fire suppressing gas mixture by the combustible material 131 flow through a filter 127, and a discharge diffuser 146 for directing the gas mixture within the enclosed space.

Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Holland et al and Drakin with a pre-packed solid propellant as

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suggested by Parkinson et al. Doing so would provide a convenience gas generator and an effective way to fight fire.

7. Claims 17, 18, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holland et al. in view of Parkinson et al. and Dunn

Holland et al. teaches all the limitations of the claims except for a pre-packed solid propellant. Parkinson et al. disclose a gas generator for generating and delivering a fire suppressing gas mixture to an enclosed space, comprising a housing 112, a pre-packed solid propellant canister 116 disposed within the housing, a pyrotechnic device 182 for igniting the solid propellant canister and generating a fire suppressing gas mixture by the combustible material 131 flow through a filter 127, and a discharge diffuser 146 for directing the gas mixture within the enclosed space. Dunn teaches a gas generator 152 having a discharge diffuser with a 90 degrees direction cap 162 (see figure 14), a discharge diffuser with a 180 degrees direction cap 36 (see figure 4), and a discharge diffuser with a 360 degrees direction cap 20 (see figure 2). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Holland et al with a pre-packed solid propellant as suggested by Parkinson et al., and a versatile directional cap as suggested by Dunn. Doing so would provide a convenience gas generator and an effective way to fight fire.

### Response to Arguments

8. Applicant's arguments filed 12/20/07 have been fully considered but they are not persuasive. The Examiner maintaining the double patenting rejection in the office action dated April 13, 2007 since the Terminal Disclaimer filed on December 13, 2005 was for

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the provisional double patenting rejection against application number 10/286,950, the

double patenting rejection in the office action dated April 13, 2007 was for the double

patenting rejection against U.S. Patent No. 7,028,782.

9. Applicant's arguments with respect to claims 2-5, 7, 11-13, 15-20 have been

considered but are moot in view of the new ground(s) of rejection.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-

4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dinh Q Nguyen Primary Examiner Art Unit 3752

dqn